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TI Foamed concrete building blocks with high fly ash
content and their manufacture
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PA Peop. Rep. China
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CC 58-4 (Cement, Concrete, and Related Building Materials)
Section cross-reference(s): 60

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	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	CN 1148578	A	19970430	CN 1995-118453	19951023
AB	The foam concrete building blocks are manufd. from a mixt. contg. fly ash 30-60, cement 20-45, quicklime 5-20, filler (sand, crushed slag, carbide slag, etc.) 5-20, activator (Na ₂ SiO ₃ or Na ₂ S ₂ O ₃) 5-20, foaming agent (rosin pyrolytic polymer, SDBS, etc.) 0.18-0.25, additive (CaCl ₂ , NaCl, quicklime, Na ₂ S ₂ O ₃ , etc.) 0-0.8, and water. The prodn. process comprises mixing fly ash, cement, quicklime, filler, activator, additive, and water for 3-5 min, adding foaming paste (prepd. by mixing foaming agent with water at a ratio of 1:35-50), stirring for 8-15 min, pouring into mold, solidifying for 5-8 h, cutting, demolding, and curing by covering with vinyl house or black plastic film for 7-24 d. Hollow building blocks can be made by vacuumizing before cutting.				
ST	building block foam concrete fly ash; foam building block concrete fly ash; concrete building block foam fly ash; fly ash building block foam concrete				
IT	Lime (chemical)				